OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG211201

Lpin1 (NM_015763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpin1 (NM_015763) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lpin1
Synonyms:	4631420P06; fld; Kiaa0188; Lipin1; mKIAA0188
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG211201 representing NM_015763
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATTACGTGGGGCAGCTGGCCGGCCAGGTGTTTGTGACGGTGAAGGAGCTCTACAAGGGACTGAACC
CCGCCACGCTGTCGGGATGCATCGACATCATTGTCATCCGGCAGCCCAATGGCAGTCTGCAGTGCTCCCC
TTTCCACGTCCGCTTCGGCAAGATGGGTGTCCTCCGCTCCCGAGAGAAAGTGGTGGACATAGAAATCAAT
GGGGAGTCCGTGGATTTGCACATGAAGTTGGGAGACAACGGAGAAGCATTTTTTGTTCAAGAGACTGACA
ACGATCAGGAAATCATCCCCATGTACCTGGCCACGTCCCCCATCCTGTCAGAAGGAGCTGCGAGAATGGA
AAGCCAGCTGAAGAGGAACTCTGTAGACAGAATCAGGTGCCTGGATCCCACTACAGCTGCCCAGGGCCTG
CCTCCCAGCGACACCCCATCCACTGGTTCTCTGGGGAAGAAGAGAAGGAAAAGGAGGAGGAAGGCCCAGT
TGGACAATCTCAAAAGAGATGACAATGTCAACACATCTGAGGATGAGGACATGTTTCCCATAGAGATGAG
CTCGGATGAGGACACAGCACCGATGGATGGAAGCAGAACTCTTCCTAATGATGTACCACCATTCCAAGAT
GATATTCCTAAGGAAAACTTCCCCTCGATTTCAACGTACCCCCAGTCAGCATCGTATCCCAGTTCGGACA
GAGAATGGTCCCCCAGCCCCAGCAGCCTGGTAGATTGCCAGAGGACTCCCCCTCACCTGGCCGAGGGAGT
TCTCTCTAGCTCTTGTCCTCTGCAGTCTTGCCACTTCCATGCTTCGGAAAGTCCTTCAGGCTCCCGGCCC
TCAACACCAAAAAGTGACTCTGAGCTGGTCAGTAAGTCTGCAGACAGGTTGACGCCAAAGAATAACCTGG
AAATGCTCTGGCTGTGGGGTGAATTGCCACAGGCTGCAAAGTCCTCTTCTCCACACAAGATGAAAGAGTC
CAGCCCCTTAGGGAGCCGGAAGACTCCTGATAAAATGAATTTTCAGGCCATTCACAGCGAGTCTTCAGAT
ACTTTTAGTGACCAGTCGCCAACAATGGCCCGGGGACTGCTCATCCACCAGAGTAAGGCCCAGACGGAAA
TGCAGTTTGTGAACGAGGAGGATCTCGAGTCCTTGGGGGCGGCAGCCCCACCTTCACCCGTGGCCGAAGA
GCTCAAGGCCCCATATCCCAACACCGCACAGTCGTCGAGCAAGACAGATTCCCCTTCCAGGAAGAAAGAT
AAACGGAGCCGACACCTTGGAGCTGATGGTGTTTATCTGGACGACCTCACGGACATGGACCCTGAAGTGG
CAGCCCTGTATTTCCCCAAGAATGGGGATCCTGGTGGGCTCCCCAAACAAGCCAGTGACAACGGAGCCAG
GTCAGCCAACCAGTCACCACAGTCTGTGGGAGGCTCGGGCATCGACAGTGGTGTGGAGAGCACCTCCGAC
AGCCTGAGGGACCTGCCATCCATCGCCATCTCCCTCTGCGGTGGCCTCAGTGACCACAGAGAGATCACCA
AAGATGCATTTTTGGAACAAGCCGTGTCATATCAGCAATTTGCCGACAACCCTGCTATCATCGATGACCC
CAACCTCGTGGTCAAGGTTGGCAATAAGTATTACAACTGGACAACAGCAGCTCCTCTACTTCTGGCGATG
CAGGCTTTCCAGAAACCTTTGCCAAAGGCCACTGTGGAATCCATCATGAGAGATAAGATGCCCAAAAAGG
GAGGAAGATGGTGGTTTTCCTGGAGAGGAAGAAATGCCACAATCAAAGAGGAAAGCAAGCCTGAACAGTG
CCTGACTGGGAAAGGCCACAATACCGGAGAGCAGCCTGCCCAGCTTGGCCTGGCCACCAGGATAAAGCAT
GAGTCATCCTCCAGTGATGAAGAGCACGCAGCCGCCAAGCCATCAGGTTCGAGCCACCTCTCTCTCTTGT
CCAACGTCAGCTACAAAAAGACCCTGCGGCTCACGTCGGAGCAGCTGAAAAGCTTGAAGTTGAAGAACGG
CCCCAATGATGTGGTGTTCAGTGTCACTACCCAGTACCAGGGCACCTGTCGCTGCGAGGGCACCATCTAC
CTGTGGAATTGGGACGACAAAGTCATCATCTCAGATATCGATGGGACCATCACAAGATCTGATACTCTTG
GTCACATTTTGCCCACGCTGGGAAAGGATTGGACTCACCAGGGCATTGCAAAGCTGTACCACAAAGTAAG
CCAGAATGGCTACAAGTTTCTCTATTGTTCGGCACGTGCCATTGGGATGGCGGACATGACGAGGGGCTAC
CTGCACTGGGTCAACGAGAGGGGCACGGTGCTTCCACAGGGCCCGCTTCTGCTCAGCCCGAGCAGCCTCT
TCTCCGCCTTGCACAGAGAAGTGATTGAAAAGAAGCCAGAAAAGTTCAAAGTCCAGTGTTTGACAGACAT
CAAGAACCTGTTTTTCCCAAACACAGAACCCTTCTATGCTGCTTTTGGGAACCGGCCTGCTGATGTGTAT
TCCTACAAGCAAGTGGGAGTGTCCCTGAATAGGATCTTCACTGTGAACCCCAAGGGTGAGCTGGTGCAGG
AGCATGCCAAGACCAACATCAGCTCGTACGTGCGGCTCTGCGAAGTGGTCGATCACGTCTTCCCATTGCT
AAAGAGAAGCCATTCCTGTGACTTCCCCTGTTCAGACACTTTCAGTAACTTCACCTTTTGGAGAGAGCCA
CTGCCACCTTTTGAAAACCAGGACATGCATTCAGCCTCAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

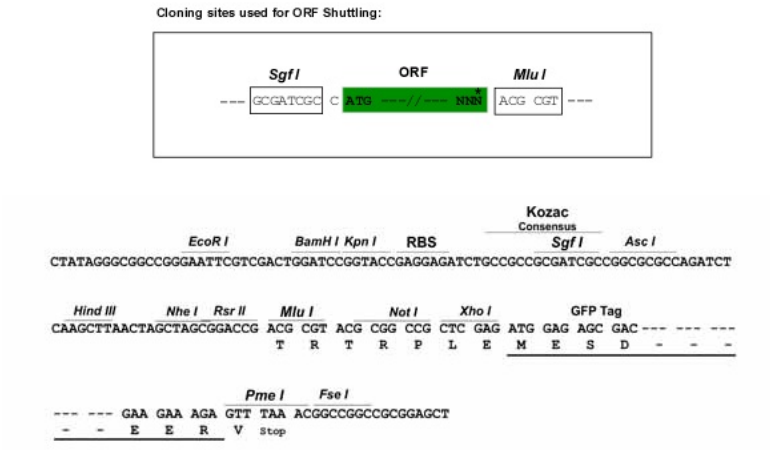
>MG211201 representing NM_015763
Red=Cloning site Green=Tags(s)

MNYVGQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGSLQCSPFHVRFGKMGVLRSREKVVDIEIN
GESVDLHMKLGDNGEAFFVQETDNDQEIIPMYLATSPILSEGAARMESQLKRNSVDRIRCLDPTTAAQGL
PPSDTPSTGSLGKKRRKRRRKAQLDNLKRDDNVNTSEDEDMFPIEMSSDEDTAPMDGSRTLPNDVPPFQD
DIPKENFPSISTYPQSASYPSSDREWSPSPSSLVDCQRTPPHLAEGVLSSSCPLQSCHFHASESPSGSRP
STPKSDSELVSKSADRLTPKNNLEMLWLWGELPQAAKSSSPHKMKESSPLGSRKTPDKMNFQAIHSESSD
TFSDQSPTMARGLLIHQSKAQTEMQFVNEEDLESLGAAAPPSPVAEELKAPYPNTAQSSSKTDSPSRKKD
KRSRHLGADGVYLDDLTDMDPEVAALYFPKNGDPGGLPKQASDNGARSANQSPQSVGGSGIDSGVESTSD
SLRDLPSIAISLCGGLSDHREITKDAFLEQAVSYQQFADNPAIIDDPNLVVKVGNKYYNWTTAAPLLLAM
QAFQKPLPKATVESIMRDKMPKKGGRWWFSWRGRNATIKEESKPEQCLTGKGHNTGEQPAQLGLATRIKH
ESSSSDEEHAAAKPSGSSHLSLLSNVSYKKTLRLTSEQLKSLKLKNGPNDVVFSVTTQYQGTCRCEGTIY
LWNWDDKVIISDIDGTITRSDTLGHILPTLGKDWTHQGIAKLYHKVSQNGYKFLYCSARAIGMADMTRGY
LHWVNERGTVLPQGPLLLSPSSLFSALHREVIEKKPEKFKVQCLTDIKNLFFPNTEPFYAAFGNRPADVY
SYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYVRLCEVVDHVFPLLKRSHSCDFPCSDTFSNFTFWREP
LPPFENQDMHSASA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

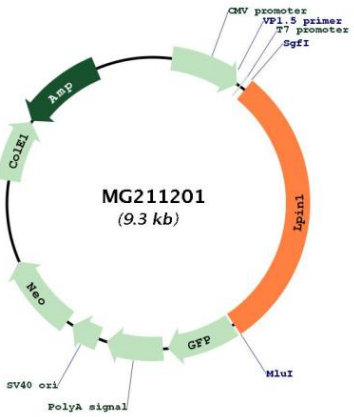
Cloning Scheme:



ACCN: NM_015763

ORF Size:	2772 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_015763.4, NP_056578.2
RefSeq Size:	5581 bp
RefSeq ORF:	2775 bp
Locus ID:	14245
UniProt ID:	Q91ZP3
Cytogenetics:	12 7.9 cM
Gene Summary:	Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis. Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression. Is involved in adipocyte differentiation. Isoform 1 is recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211201